

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 October 2003 (02.10.2003)

PCT

(10) International Publication Number
WO 03/081879 A1

(51) International Patent Classification⁷: **H04M 1/02**

(21) International Application Number: **PCT/FI03/00162**

(22) International Filing Date: **5 March 2003 (05.03.2003)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
20020582 26 March 2002 (26.03.2002) FI

(71) Applicant (for all designated States except US): **NOKIA OYJ [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KORHONEN, Panu [FI/FI]; Vallirinne 11A, FIN-00430 Helsinki (FI). KAARESOJA, Topi [FI/FI]; Töyrytie 6 D 143, FIN-00630 Helsinki (FI).**

(74) Agent: **HEINÄNEN OY; Annankatu 31-33 C, FIN-00100 Helsinki (FI).**

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

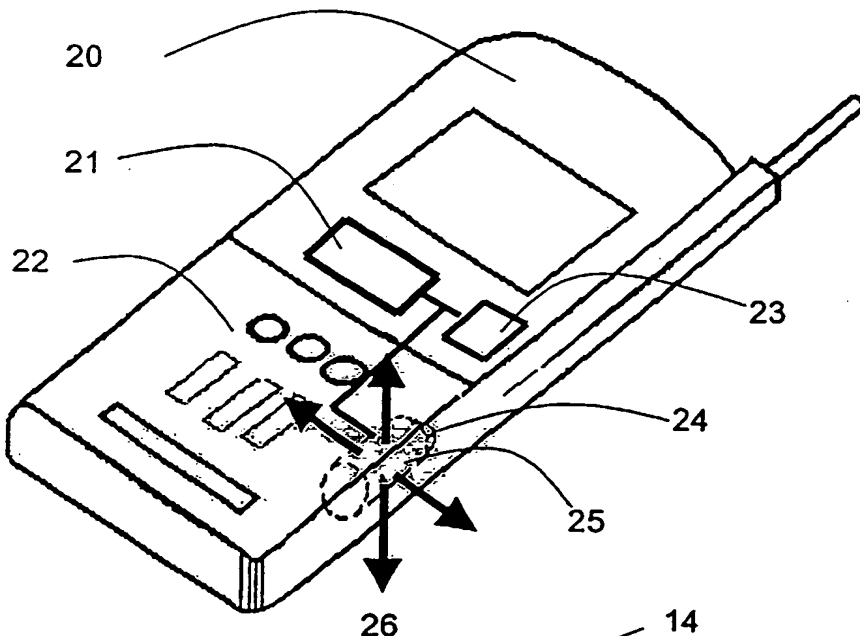
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **USER INTERFACE FOR A PORTABLE TELECOMMUNICATION DEVICE**



(57) **Abstract:** User interface for providing operational input to a portable telecommunication device without using keys or corresponding manual input means, wherein the interface comprises an electromechanical actuator (25) including an electrical drive means provided with supply means for electrical power and a movable means (24) arranged in relation to the drive means in such a way that the movable means performs a mechanical movement when electrical power is supplied to the drive means, and wherein an electric signal is induced in the drive means when the portable telecommunication device is moved in a way that causes the movable means to move, a sensing unit (23) for sensing the induced electrical

signal, and a control means (21) for controlling a desired operation of portable telecommunication device by means of the signal induced in the drive means.

WO 03/081879 A1